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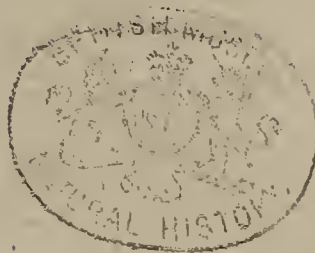
Yorkshire Philosophical Society.

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ANNUAL REPORT

FOR

MDCCCXXXIV.





# ANNUAL REPORT

OF THE COUNCIL

OF THE

Yorkshire Philosophical Society

FOR

MDCCCXXXIV.

PRESENTED TO THE ANNUAL MEETING

FEBRUARY 3RD, 1835.



Y O R K :

THOMAS WILSON AND SONS, HIGH-OUSEGATE.

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1835.





# CONTENTS.

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LIST OF THE TRUSTEES, PATRONS, OFFICERS, &c.	...	Page.	v
REPORT OF THE COUNCIL	... ..		1
TREASURER'S ANNUAL ACCOUNTS	... ..		10
SCIENTIFIC COMMUNICATIONS	... ..		13
DONATIONS TO THE MUSEUM	... ..		14
DONATIONS TO THE LIBRARY	... ..		17
NEW MEMBERS	... ..		21
DONATIONS	... ..		21

FORM OF A  
BEQUEST TO THE SOCIETY.

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EVERY person desirous of bequeathing to the Society any sum of Money, Specimens, Books, Instruments, or other Property, is requested to make use of the following form :

*I give and bequeath to the Trustees, for the time being, of the Society established at York, called “THE YORKSHIRE PHILOSOPHICAL SOCIETY,” for the use of the said Society, the sum of \_\_\_\_\_ to be paid out of such part of my personal estate, as I may legally charge therewith. [Or here enumerate the effects or property intended to be bequeathed.] And I direct that the receipt of the Treasurer of the said Society for the time being, shall be an effectual discharge to my Executors for the said legacy.*



TRUSTEES  
OF  
THE YORKSHIRE MUSEUM,  
APPOINTED BY THE ROYAL GRANT.

---

HIS GRACE THE ARCHBISHOP OF YORK.

EARL OF CARLISLE.

EARL FITZWILLIAM, F.R.S., F.S.A.

EARL DE GREY.

HON. AND VERY REV. THE DEAN OF LICHFIELD.

FRANCIS CHOLMELEY, ESQ.

ROBERT DENISON, ESQ.

REV. W. VERNON HARCOURT, F.R.S.

WILLIAM HATFEILD, ESQ. F.G.S.

WILLIAM LAWSON, ESQ.

EUSTACHIUS STRICKLAND, ESQ.

RICHARD JOHN THOMPSON, ESQ.

P A T R O N S  
OF  
THE YORKSHIRE PHILOSOPHICAL SOCIETY.

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HIS GRACE THE ARCHBISHOP OF YORK.  
EARL OF CARLISLE.  
EARL FITZWILLIAM, F.R.S.  
EARL OF TYRCONNEL, F.R.S.  
VISCOUNT MORPETH.  
LORD STOURTON.  
LORD WHARNCLIFFE.

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OFFICERS OF THE SOCIETY.

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PRESIDENT :

THE EARL FITZWILLIAM, F.R.S., F.S.A., &c. &c.

VICE-PRESIDENTS :

EARL OF TYRCONNEL, F.R.S. F.G.S.  
REV. JOHN GRAHAM.  
REV. WM. VERNON HARCOURT.  
WM. HATFEILD, F.G.S.  
EUSTACHIUS STRICKLAND.  
JONAH WASSE, M.D.

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TREASURER :

JONATHAN GRAY.

C O U N C I L :

Elected 1833 ..... THOMAS ALLIS.

HENRY ROBINSON.

REV. I. J. D. PRESTON, F.C.P.S., &c.

BALDWIN WAKE, M.D.

Elected 1834 ..... REV. D. F. MARKHAM.

JOHN BROOK.

WILLIAM LEWIN NEWMAN, F.R.A.S.

GEORGE HICKS SEYMOUR.

Elected 1835 ..... REV. ROBERT BRYAN COOKE.

CHARLES HENEAGE ELSLEY.

FRANCIS CHOLMELEY, F.S.A.

REV. CHARLES WELLBELOVED.

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S E C R E T A R I E S :

WILLIAM GRAY, JUN.

JOHN PHILLIPS, F.R.S., G.S., &c.



## C U R A T O R S :

REV. JOHN GRAHAM	...	GEOLOGY.
WILLIAM HATFEILD, F.G.S.	...	MINERALOGY.
JAMES ATKINSON	... ..	COMPARATIVE ANATOMY.
THOMAS ALLIS	...	} ORNITHOLOGY.
REV. J. B. GRAHAM	...	
REV. I. J. D. PRESTON, F.C.P.S.		ENTOMOLOGY.
REV. W. HINCKS, F.L.S.	...	BOTANY.
REV. C. WELLBELOVED	...	ANTIQUITIES AND COINS.
HENRY ROBINSON	... ..	LIBRARY.

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 KEEPER OF THE MUSEUM:

JOHN PHILLIPS, F.R.S., G.S., &c.

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## S U B - C U R A T O R :

HENRY BAINES.

REPORT  
OF  
THE COUNCIL.

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IN presenting the Report of the proceedings of the Yorkshire Philosophical Society in 1834, the Council are happy to assure the Annual Meeting that the hopes and expectations of former years have been in a considerable degree realized in the last ;—the accommodations in the Museum have been greatly augmented ; the collections have been enlarged and enriched ; the extraordinary expenses of the Institution may be considered as terminated, and the Society in consequence is advanced to a point from which its friends may look back with satisfaction on the progress it has made, and forward with confidence to a steady career of usefulness.

Wholly dependent on the public favour for the means of erecting a spacious building on a beautiful site, and of maintaining a suitable scientific establishment, it is highly gratifying to find proof of the continued attachment of its many friends, in the still unexhausted supply of new Donations to various departments of the Museum and Library, and to know that the time is arrived when they may be more than ever turned to the advantage of the general student, and to the special illustration of the Natural History and Antiquities of Yorkshire.

The well-stored Museum of ORGANIC REMAINS has been made more complete by the addition of a series of specimens

from the Wealden formation <sup>1</sup>; some of the most curious of the later discoveries in the Lias of Dorsetshire have been furnished by two of our earliest friends <sup>2</sup>; many contributions have been received from the Yorkshire coast, through the personal exertions of three Officers of the Institution <sup>3</sup>; and the general history of these remarkable deposits has been aided by a contribution of fossils from the analogous strata of Brora <sup>4</sup>. With deep and grateful satisfaction has the Geological Museum been consulted by many eminent men of science;—and it has recently furnished to M. Agassiz materials which he thinks of great importance for the completion of his magnificent volumes on Fossil Ichthyology.

The MINERALOGICAL Cabinet has received only two additions, but these are of peculiar value; the series of stalactical and other forms of perfectly crystallized carbonate of lime, from the Kingston cave, near Cahir, <sup>5</sup> and the fine crystals of sulphate of lime formed in the abandoned galleries of Felling Colliery, teach important truths as to the power and action of what have been called ‘diurnal’ geological causes.

The ZOOLOGICAL collections have been greatly augmented especially in the Ornithological department;—the untiring liberality of Mr. Allis, and Mr. Healey, well seconded by the contribution of several remarkable specimens, and by a purchase effected on most favourable terms, has supplied many of the most obvious deficiencies in this department of science.

The new Zoological Museum will, therefore, immediately receive one thousand specimens of Birds, and a considerable

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<sup>1</sup> Presented by the Rev. L. V. Harcourt.      <sup>2</sup> The Misses Wickham.      <sup>3</sup> Mr. Allis, Mr. W. Gray, Mr. Hatfeild.      <sup>4</sup> Presented by the Duchess of Sutherland.      <sup>5</sup> Presented by Miss Atkinson and Col. Chatterton, M.P.



display of Mammalia, Reptiles, and Fishes, Foreign and British Insects, Shells, Corals, and Crustacea <sup>1</sup>.

That Museum is now completed, upon a plan which appears calculated to combine an admirable illustration of the living wonders of nature, with a correct general arrangement, and to afford the means of an enlarged and truly scientific contemplation of the animal kingdom. The Committee to whom this arduous and responsible duty was assigned, have performed their work to the entire satisfaction of the Council, and, they hope, to the general approbation of the Members; and so effectually have they been aided by the liberality of the Subscribers, that they have not required from the Society any further grant than the sum placed at their disposal by the last Annual Meeting. The old cases removed from this room are destined to furnish the Council Room, Laboratory, and other apartments, and thus, in consequence of one great exertion, the Society is relieved from the most serious of all embarrassments, that of receiving valuable gifts which could not be made useful.

To the ANTIQUARIAN collections no very considerable additions have been made during the past year. Some valuable presents in this department of the Museum have however been received. To Mr. Elsley, and Mr. Graham, the Museum is indebted for specimens of Roman gold. Mr. D. F. Markham has filled up some chasms in the series of Roman family coins; and Mr. Davies has increased the store of Roman and Saxon relics before obtained from the removal of a part of the rampart, and various excavations in the city.

These collections will soon be placed more favourably for

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<sup>1</sup> A catalogue of the species wanting to complete the series of British Birds will be found in page 9.

public inspection ; but as no arrangement can be made by means of which the coins can be satisfactorily exhibited without the presence of the Curator, he wishes again to assure the Members of the Institution, that he will cheerfully attend at the Museum, whenever any Member may be desirous of seeing them ; if notice of such desire be previously conveyed to him through the Porter.

The possession of a Scientific LIBRARY was always contemplated by the Society as indispensable to confer value on its other collections, and during the past year this object has been greatly advanced by the presentation of several works of merit on antiquarian and astronomical researches, with drawings, and maps of value, and of books in almost all departments of knowledge. The splendid gift of the Experiments of the late Colonel Beaufoy, challenges our special thanks <sup>1</sup>. During the year, the Society has welcomed the appearance of two works dedicated to its Members ; the History and Antiquities of Catterick Church, by the Rev. James Raine, A.M., and Anthony Salvin, Esq. ; and the Guide to Geology, by Professor Phillips : the former realizing a part of the plan of the Antiquarian Committee, the latter illustrative of the fundamental principles of a science which has no where found more zealous support than within the walls of the Yorkshire Museum.

It is with pleasure the Council have to state that arrangements are made for the publication of the Second Volume of the Geology of Yorkshire during the present year <sup>2</sup> : thus one great object proposed by the Society at its foundation will have been partly accomplished.

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<sup>1</sup> This noble volume, the first of a series, is printed at the cost of Henry Beaufoy, Esq., and generously distributed to societies and men of science.

<sup>2</sup> The First Volume will be republished in May, 1835. Persons desirous of obtaining copies of either of these works, are requested to inform the Author, Museum, York.



The labours in the OBSERVATORY have been in constant operation, and as far as the Instruments placed in it, and the arrangements which can be made for the using of them, will allow, they have been of service in exciting and maintaining a taste for Astronomy, and other branches of physical science connected with it.

The METEOROLOGICAL researches of the past year have been still directed to the curious problem of the hourly oscillations of the Barometer, and in this the Secretaries have been aided by Mr. Outhett, who has obliged them by measuring the mercurial column at 4 A. M., and at several other hours, for the space of nearly two years. In consequence, the results of much labour on this interesting subject can now be produced in a general table, and compared with other observations and the indications of theory. It is proper to observe that no continued register of observations of this nature, at 4 A. M., has yet been published for any place in Great Britain, except the admirable Essay of Mr. Hudson, in the Philosophical Transactions for 1832.

From the different METEOROLOGICAL Registers presented to the Society, the following Table of the quantity of Rain at several localities in Yorkshire, in the year 1834, has been compiled.

	<i>East of York.</i>			<i>York.</i>	<i>West of York.</i>		
	Huggate. 600 ft.	Middleton. 400 ft.	Brandsby. 200 ft.	35 ft.	Moat Hall. 100 ft.	Ackworth. 200 ft.	Kirkthorpe, nr. Wakefield on a house top
Jan.	5.775	4.25	3.90	3.650	3.892	3.70	2.652
Feb.	2.875	1.57	1.69	1.320	1.619	0.57	0.870
Mar.	1.500	2.64	1.17	1.475	1.525	1.49	1.100
Apr.	1.375	0.84	1.36	1.375	1.405	1.83	1.303
May	1.000	0.55	0.74	0.740	1.212	0.66	1.204
June	1.375	1.27	1.77	2.145	1.490	1.99	1.420
July	4.500	1.00	3.82	3.545	4.085	7.03	5.500
Aug.	2.000	2.25	2.92	1.615	0.665	2.09	1.133
Sept.	2.000	1.63	2.54	1.935	4.390	1.83	1.444
Oct.	1.000	1.24	0.49	0.465	0.755	0.26	0.288
Nov.	0.960	2.20	1.46	1.741	} 2.225	1.16	1.386
Dec.	2.000	0.74	0.74	0.694		1.13	0.654
	26.360	20.18	22.60	20.700	23.263	23.74	18.954

RESULTS OF OBSERVATIONS  
ON THE  
OSCILLATION OF THE BAROMETER,

At several hours, between 4 A. M. and 10 P. M. at York, in N. Lat.  $53^{\circ} 56'$ , 35 feet above high-water.

1st, The height at 4 P. M. being taken as the standard.

A. M.			P. M.		
4	8	9	4	9	10
+	+	+		+	+
·0075	·0163	·0178	standard	·0170	·0162

2d, The mean of the heights at 9 A. M., and 4 P. M. being taken as the standard.

A. M.			P. M.		
4	8	9	4	9	10
—	+	+	—	+	+
·0013	·0074	·0089	·0089	·0081	·0073

The researches of Professor Forbes, (Trans. of the Royal Society of Edinburgh, 1831,) and those of Mr. Hudson, (Philosophical Transactions, 1832,) afford the means of comparing these results with those obtained in London, and in Edinburgh. Mr. Hudson states the oscillation from 10 A. M. to 4 P. M. in London, Lat.  $50^{\circ} 51'$ , 95 feet above the sea, at ·028. Mr. Forbes has determined the same in Edinburgh, Lat.  $55^{\circ} 55'$ , 430 feet above the sea, to be ·0114. According to the formula of Professor Forbes, this oscillation should be at York, ·0166: the result of one year's observation gives it ·0004 less than the maximum oscillation which happens at 9 A. M., or ·0174. In London, the evening oscillation (4 P. M. to 11 P. M.,) = ·023; in York, (4 to 9,) ·0170; in Edinburgh, (4 to 10,) ·0097. The nightly oscillation in London (11 P. M. to 4 A. M.) is ·0116; at York, (9 P. M. to 4 A. M.) ·0094.



Another and still more curious subject of investigation has been prosecuted with unremitting attention for the last three years,—the determination of the quantities of RAIN falling at different heights above the ground. The admirable situation of York, the great height and accessibility of the Minster, and the concurrence of the authorities of the Church, have given to the labours of the Secretaries on this question a precision and completeness which has enabled them to present results, and to deduce consequences which, if they shall be confirmed by farther experiments in other situations, will be found to throw a new light, not only on the theory of Rain but also on some other interesting problems in Meteorology. These experiments were instituted at the recommendation of the first Meeting of the British Association, in 1831, in whose volumes the record of them will be found; and the Council is informed that the example set at York, of obedience to the wishes of that great body of men of science, is already imitated in two localities in England, where the annual quantity of rain and other circumstances of climate are very different.

The phenomena of the AURORA BOREALIS, the construction of meteorological and magnetical instruments, and the important subject of subterranean temperature, have received much attention from several Members of the Society, and there can be no doubt that the impulse of the first Meeting of the British Association will continue to be felt in this Society, until that great instrument for the advancement of knowledge shall return to invigorate our exertions.

Such is a brief view of the Scientific labours of the Institution during the year 1834. The statements of Accounts which follow will fully explain the condition of its financial arrangements. The Annual Expenditure has been kept within the income by above £.80; in spite of three unexpected sources of expense, which no prudence could have

prevented, amounting to about £.25.—The General Account is charged with the sum of £.235 for the fitting up of the Zoological Museum, for various important alterations of the flues, repairs of sky-lights and roof, and thoroughly painting the Zoological Museum ; a disputed bill amounting to £.39 has been paid ; yet in consequence of the admission of New Members, and Compositions, and the savings from the year's income, the general debt of the Society is augmented by only the sum of £.114.

The great expenses of the Institution are now ended ; its ordinary charges can be defrayed out of the ordinary income ; the public favour still follows its disinterested exertions, new Members will surely be attracted to share its increased advantages, and to stimulate its growing prosperity. The foundations of the Institution were laid securely on the basis of general utility, its scientific energy has been steadily increasing, specially directed towards local objects, but guided by a just spirit of general philosophy. Of the many thousands who examine the treasures of this Museum, some are taught to study, and all are constrained to admire, the varied images of nature, and the impressive monuments of art ; every day augments the intellectual wealth and harmonizing influence of the Society ; it has taken its just place among the kindred institutions of the age, and not disappointed the hopes of its founders. The ruins amongst which we stand, do indeed sufficiently remind us that this Building, the work of our hands, cannot be expected to last for ever ; yet (if we rightly understand the value of science and do our best to promote it,) it is in our power to confer on this Institution, more than ‘a long enduring name ;’—to nourish in it a principle of life and permanent activity ; and to challenge from the present and future generations a grateful acknowledgement of its utility, wherever the pure and peaceful light of philosophy shall shine for the blessing of mankind.



# LIST OF SPECIES

WANTED TO COMPLETE THE

## SERIES OF BRITISH BIRDS,

ACCORDING TO SELBY'S ARRANGEMENT.

LAND BIRDS.	Ring Dove.	Baillon's Crake.
Cinereous Eagle (Old Bird).	Rock Dove.	Little Crake.
Osprey.	Turtle Dove.	Sanderling.
Moor Buzzard.	Great Bustard.	Collared Pratincole.
Goshawk.	Little Bustard.	Cream-coloured Swift-foot.
Falco rufipes.	—	Kentish Plover.
Kite.		All the species of Wild Goose.
Oriole.	WATER BIRDS.	Bewick's Swan.
Woodpecker (Greater Spotted, Lesser Spotted).	Crane.	Ruddy Shieldrake.
Bee Eater.	Purple Heron.	Bimaculated Teal.
Great Shrike.	White Heron.	Surf Scoter.
Redwing.	Little Egret.	Eider.
Specimens of all the species of Sylvia and Regulus will be acceptable.	Buff-backed Heron.	Red-crested Pochard.
Wheat Ear.	Squacco Heron.	Western Pochard.
Tree Pipit.	American Bittern.	Harlequin Duck.
Wood Lark.	Night Heron.	Red-necked Grebe,
Marsh Titmouse.	Cayenne Night Heron.	Northern Diver.
Crested ditto.	Stork.	Red-throated Diver.
Cirl Bunting.	Black Stork.	Great Auk.
Pine Grosbeak.	Glossy Ibis.	Specimens of all the Terns and Gulls will be serviceable.
Greenfinch.	Specimens of the Sandpipers, Godwits, and Snipes ; and all the species of Tringa will be acceptable.	Skua Gull.
Mountain Linnet.	Grey Phalarope.	Fulmar.
Lesser Redpole.	Red Lobefoot.	The Shear Waters.
		Stormy Petrel.

## RECEIPTS.

					£.	s.	d.	
Annual Subscriptions from 221 Members, at £2.	...	...	...	...	442	0	0	
Ditto from 7 Members at £1. ..	...	...	...	...	7	0	0	
From Ladies, Annual Subscribers	...	...	...	...	28	0	0	
For Keys of Garden	...	...	...	...	11	10	0	
Mr. Addams's Lectures	...	...	...	...	28	16	0	
Annual Donations	...	{ Sir C. Ibbetson	5	5	0 }	7	5	0
		{ Mrs. Danby	2	0	0 }			
Donation from Mr. Hincks, being the proceeds of a Course of Lectures					5	3	0	

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£. 529 14 0

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Arrears due to the Society on this Account ... .. £. 80 0 0

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## PAYMENTS.

				£.	s.	d.	£.	s.	d.
Rent to the Crown	...	...	...	1	0	8			
..... Corporation	...	...	...	6	12	6			
Parochial Rates, &c.	...	...	...	14	0	0			
Water Rent	...	...	...	4	4	0			
Insurance	...	...	...	5	0	0			
				<hr/>			30	17	2
Keeper of the Museum	...	...	...	100	0	0			
Sub-curator	...	...	...	65	0	0			
Allowance for Labour in the Garden and Museum				40	0	0			
Lodgekeeper	...	...	...	10	0	0			
Collector and Messenger	...	...	...	1	11	6			
				<hr/>			216	11	6
Printing and Advertising :									
Report for 1833	...	...	..	12	18	6			
Miscellaneous Printing	...	...	...	8	6	0			
Advertisements	...	...	...	1	0	0			
				<hr/>			22	4	6
Stationery	...	...	...				2	12	9
Books and Binding :									
Books	...	...	...	40	2	0			
Binding	...	...	...	6	0	11			
				<hr/>			46	2	11
Incidents :									
Carriage, Postage, &c.	...	...	...	8	9	11			
Repairs	...	...	...	23	17	8			
Garden, including two bills of 1833	...		...	12	9	1			
Gas	...	...	...	8	9	0			
Coke and Coal	...	...	...	13	4	6			
Museum and Laboratory	...	...	...	4	4	10			
				<hr/>			70	15	0
Purchase of a collection of Birds, and Insects			...				38	10	0
Mr. Addams for Lectures	...	...	...				31	10	0
Interest on Debt	...	...	...				70	4	6
Balance in favour of the Society		...	...				15	8	
							<hr/>		
							£.529	14	0
							<hr/>		



## GENERAL ACCOUNT.

	£.	s.	d.		£.	s.	d.
Received Arrears of Annual Subscriptions, &c.	83	0	0	Due to the Treasurer on the General Account of 1833	1787	12	1
Compositions from two Members	40	0	0	Paid a disputed Bill	39	1	10
For Copies of the History of St. Mary's Abbey	17	0	0	Grant to the Museum Committee for the fitting-up of the Central Museum, and painting, and sundry repairs conducted under their superintendence	235	11	6
Admissions of New Members	36	0	0				
From the Treasurer, balance on the Annual Account of 1834	0	15	8				
	176	15	8				
Balance due to the Treasurer 1885	1885	19	9				
	£.2062	5	5		£.2062	5	5

### *Arrears due to the Society.*

	£.	s.	d.	£.	s.	d.
Subscriptions to the Building Fund	23	2	0			
For Copies of History of St. Mary's Abbey	9	0	0			
Annual Subscriptions, &c., of preceding years	114	0	0			
..... 1834	80	0	0			
	226	2	0			
Final Balance against the Society	£.1659	17	9			

# SCIENTIFIC COMMUNICATIONS

TO THE

## GENERAL MEETINGS.

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FEBRUARY, 1834.—Notice of Experiments for an improved Dew Point Hygrometer, by the Rev. W. V. Harcourt, F.R.S., G.S.

Summaries of Meteorological Observations for the year 1833 ; at Brandsby, by Francis Cholmeley, Esq. ; at Huggate, by the Rev. T. Rankin ; at Ackworth, by R. Whitaker ; at York, by the Meteorological Committee and Mr. Ford ; at Moat Hall, by Dr. Wasse ; at Middleton, by the Rev. W. R. Allcroft.

MARCH.—On the ancient Forest of Waghen, in Holderness, by John Phillips, F.R.S., G.S., Professor of Geology in King's College.

JULY.—Notice of facts observed during the construction and adjustment of an Achromatic Telescope, by John Phillips, F.R.S., G.S.

NOVEMBER.—On the Polariscopes, by Wm. Gray, jun., Secretary of the Yorkshire Philosophical Society.

On the Skeleton of the Armadillo, by Thomas Allis.

Description of an improved Goniometer, by W. L. Newman, F.R.A.S.

DECEMBER.—Account of Experiments on Subterranean Temperature, in Monkwearmouth Colliery, at a depth of 528 yards, by John Phillips, F.R.S., G.S.

JANUARY.—On three exhibitions of Aurora Borealis, observed in the year 1833, by John Phillips, F.R.S., G.S.

# DONATIONS

## TO

### THE SOCIETY'S MUSEUM.

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#### G E O L O G Y.

Thomas Allis ... ..	Pholas constrictus, and other fossils from Speeton.
— Austin ... ..	Ammonites triplicatus, from Malton.
Mr. H. Baines ... ..	Cardium truncatum, from Farndale.
Mrs. James Chadwick ...	Fossils, from the white lias and blue lias of Charmouth.
Francis Cholmeley, Esq. ...	Large slab of shelly limestone, from Brandsby.
Wm. Gray, jun., Esq. ...	Series of cycadeæ, equiseta, filices, &c., from Gristhorp, Cloughton, and other localities on the Yorkshire coast.
Samuel Hailstone, F.G.S.	Fossil plants, from Bardsey ; spar veins in magnesian limestone ; unio subconstrictus.
Rev. L. V. Harcourt ...	Series of fossils, from the Wealden formation, in Sussex, &c.
Wm. Hatfeild, F.G.S. ...	Ophiura Milleri, avicula cygnipes, and other organic remains, collected on the Yorkshire coast.
Mr. T. R. Hills ... ..	Specimens of crystallized magnesian limestone, from Building Hill, &c.
H. Johnston, Esq., M.D. <i>Shrewsbury.</i>	Neuropteris cordifolia, from Leebotwood.

J. E. Lee, Esq.	...	...	Geological model of a part of Lincolnshire.
Miss Richardson	...	...	Flexible magnesian limestone, from Marsden rocks.
Duchess of Sutherland	...		Series of organic remains, from the oolitic series of Brora, in Sutherland.
Granville H. Vernon, Esq.			Calymene Blumenbachii, from Dudley.
Misses Wickham	...	...	Organic remains from Lyme Regis, including bags of sepia, dorsal laminæ of sepia, paddle of ichthyosaurus, &c.
R. Wormald, Esq.	...	...	Fossil bivalves, found near Helmsley.

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## MINERALOGY.

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Miss Atkinson, and Col. Chatterton, M.P.			Stalactite, stalagmite, and other forms of crystallized carbonate of lime, from the Kingston Cave, near Cahir; (with a plan and drawing of the Cave.)
Wm. Hutton, F.G.S.	...		Mass of crystallized sulphate of lime, from Felling Colliery, near Newcastle, produced in less than 22 years.

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## ZOOLOGY.

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Thomas Allis	...	...	107 foreign birds, including a pair of swallow-tailed hawks. Kingfisher with crossed mandibles. Astræa. Ophiura aculeata. Echinus esculentus.
--------------	-----	-----	---



Mr. Binns ... ..	Six birds of the genus Buceros.
Mrs. Danby ... ..	Pied pheasant, from Swinton Woods.
Lawrence Edmonstone, Esq., M.W.S.	Diver, gull, and falcon, shot at Balta Sound in April, 1834.
Wilbraham Egerton, Esq. M.P.	Red deer, old male ( <i>cervus elaphus</i> ), from Tatton Park.
Samuel Hailstone, F.G.S.	Solen pellucidus.
Mrs. Hartland, <i>Tewksbury</i>	Sanguinolaria vespertina ( <i>Guernsey</i> ).
Henry Healey, Esq. ...	Long-tailed duck, shoveller, garganey, ruff and reeve, ring dottrel, eggs of stone curlew, fringilla montana, grey wagtail, titlark, redstart, hornbill, mos- chus javanicus, m and f.
Mr. Henderson, <i>Castle Howard</i>	Waxwing ( <i>ampelis garrula</i> ), shot at Castle Howard.
Wm. Kirby, Esq. ... ..	The secretary falcon.
C. Robinson, Esq. ... ..	Cardium costatum, voluta neptuni, mu- rex saxatilis.
Mr. J. Turner ... ..	Touraco, fringilla ignicolor; two hum- ming birds.
The Misses Walmsley, <i>Bridlington</i> .	Full grown emu, which had lived at Bridlington two years.

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## B O T A N Y.

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T. Backhouse, Esq. ... ..	Fruit and radical leaves of the grass tree of Van Dieman's Land. A frond of cybodium billiardieri.
C. Lutwidge, Esq. ... ..	Roots of elymus arenarius, and arundo arenaria, from Spurn Point.



## COINS AND ANTIQUITIES.

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Mr. T. Allis	...	...	...	A coin dug up at the Retreat.
James Barber, Esq.	...	...	...	A small ornamented silver cross ; Penny of Alexander of Scotland, and of Edward IV., &c.
Dr. Beckwith	...	...	...	Shilling of Elizabeth ; 4 Roman coins, found in Trinity Gardens ; 5 other coins.
Mr. J. Brookbank, jun.	...	...	...	Impression of the great seal of Hen. VII.
R. Davies, Esq.	...	...	...	Various Roman antiquities and coins found in digging the foundation in St. Leonard's Place.
C. Elsley, Esq.	...	...	...	Gold coin of Honorius, found at Kirby Knowle ; 20 shillings piece of Charles I.
Rev. J. Graham	...	...	...	Gold coin of Honorius.
W. H. Hearon, Esq.	...	...	...	Various coins.
Rev. D. F. Markham	...	...	...	4 Roman consular coins.
Col. Markham	...	...	...	A sanscrit roll.
Rev. James Menteith	...	...	...	2 silver coins.
H. Robinson, Esq.				Halfpenny of Edward III.
Rev. C. Wellbeloved	...	...	...	A claymore found in Cleveland.
Rev. G. Wilkins	...	...	...	Cast of a bronze Hercules, dug up at Cambrai, and now in the British Museum.

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Miss Atkinson and Col. Chatterton, M.P.				Map of the Cave of Kingston, near Cahir.

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